IN THE ABSTRACT:

Applicants submit herewith a Substitute Abstract to overcome the Examiner's objections and in compliance with MPEP 608.02(1).

ABSTRACT OF THE DISCLOSURE

A programmable driver/equalizer with an alterable FIR enables the equalization of serial links or other transmission systems to adapt to a variety of transmission media, specifically, intersymbol interference (ISI). Current mode differential drive circuits are coupled to a transmission media via a Finite Impulse Response (FIR) filter operating in the Z transform mode. The FIR filter includes A and B coefficient setting circuit, and is coupled to the drivers. The driver circuit also includes A coefficient level driver compensation and B coefficient level driver compensation to reduce self-induced ISI from the driver while the filter coefficients are activated. The coefficient setting circuit receive a combination of control bits to select the appropriate response for the driver to the various transmission media parameters. Adjustments to the driver output current are made at data run lengths exceeding certain values and subsequent adjustments are made for data run lengths exceeding larger values.

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IN THE DRAWINGS:

Applicants submit the attached Replacement Sheets, Figs. 1-11 to replace the originally filed Figs. 1-11 in the subject application. The Replacement Sheets are submitted to correct minor informalities cited by the Examiner and to place the drawings in compliance with 37 CFR 1.84.

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